# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

**Name of work:** Improvements to Roads and Drains at Surrounding areas of Agrahara Layout in Ward No.05, Byatarayanapura Sub Division

| | | | Estimate Cost Rs. | | | | | 2000000.00 | |
|---|---|---|---|---|---|---|---|---|---|
| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
| 1 | KSRB 2-1.1: Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1,P. No. 5/ Item No. 2.1/ PWD SR 2014-15 | cum | | | | | | | |
| | **Desilting of Drain** | | | | | | | | |
| | Masjid Road 1st Cross | | 2 | 110.00 | 0.40 | 0.30 | 26.40 | | |
| | Masjid Road 2nd Cross | | 2 | 113.00 | 0.40 | 0.30 | 27.12 | | |
| | **For Road Surface** | | | | | | | | |
| | Masjid Road 1st Cross | | 1 | 110.00 | 5.00 | 0.15 | 82.50 | | |
| | Masjid Road 2nd Cross | | 1 | 113.00 | 5.00 | 0.15 | 84.75 | | |
| | | | | | | | **220.77** | 146.88 | **32427.00** |
| | Basic Rate | 136.00 | | | | | | | |
| | Area Weightage @ 8% | 10.88 | | | | | | | |
| | **Total** | **146.88** | | | | | | | |
| 2 | KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in **Hard soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2014-15 | Cum | | | | | | | |
| | For Culverts | | 2 | 6.50 | 1.95 | 1.05 | 26.62 | | |
| | | | | | | | **26.62** | 264.60 | **7043.00** |
| | Basic Rate | 245.00 | | | | | | | |
| | Area Weightage @ 8% | 19.60 | | | | | | | |
| | **Total** | **264.60** | | | | | | | |
| 3 | Removing B.S Slab of Drain and stacking Page No.25/ Item No. 5.32/ PWD SR 2014-15 | Sqm | | | | | | | |
| | Masjid Road 1st Cross | | 2 | 110.00 | 1.65 | | 363.00 | | |
| | Masjid Road 2nd Cross | | 2 | 113.00 | 1.65 | | 372.90 | | |
| | | | | | | | **735.90** | | |
| | **Deduct 20% Missing Slabs** | | | | | | 147.18 | | |
| | | | | | | | **588.72** | 58.32 | **34334.00** |
| | Basic Rate | 54.00 | | | | | | | |
| | Area Weightage @ 8% | 4.32 | | | | | | | |
| | Total | **58.32** | | | | | | | |
| 4 | Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25/ Item No. 5.33/ PWD SR 2014-15 | Sqm | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | Qty Vide Item No.3 | | | | 588.72 | | |
| | | | | | | | **588.72** | **75.60** | **44507.00** |
| | Basic Rate | 70.00 | | | | | | | |
| | Area Weightage @ 8% | 5.60 | | | | | | | |
| | Total | **75.60** | | | | | | | |
| 5 | Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No.25/ Item No. 5.31.1/ PWD SR 2014-15 | **Sqm** | | | | | | | |
| | **For Missing slabs (20%)** | | Missing Slabs | | | | 147.18 | | |
| | | | | | | | **147.18** | 639.36 | **94101.00** |
| | Basic Rate | 592.00 | | | | | | | |
| | Area Weightage @ 8% | 47.36 | | | | | | | |
| | **Total** | **639.36** | | | | | | | |
| | | | | | | | | | |
| 6 | KSRB-4-1.3 : Providing and laying in position **plain cement concrete of mix M 1:4:8** withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2014-15 | **Cum** | | | | | | | |
| | For Culverts | | 2 | 6.50 | 1.95 | 0.15 | 3.80 | | |
| | Masjid Road 1st Cross | | 1 | 110.00 | 5.00 | 0.15 | 82.50 | | |
| | Masjid Road 2nd Cross | | 1 | 113.00 | 5.00 | 0.15 | 84.75 | | |
| | | | | | | | **171.05** | 4847.04 | **829098.00** |
| | Basic Rate | 4488.00 | | | | | | | |
| | Area Weightage @ 8% | 359.04 | | | | | | | |
| | Total | **4847.04** | | | | | | | |
| 7 | KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry **in foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2014-15 | cum | | | | | | | |
| | For Culverts | | 2X2 | 6.50 | 0.60 | 0.45 | 7.02 | | |
| | | | | | | | **7.02** | 3836.16 | **26930.00** |
| | Basic Rate | 3552.00 | | | | | | | |
| | Area Weightage @ 8% | 284.16 | | | | | | | |
| | **Total** | **3836.16** | | | | | | | |
| 8 | KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry **in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2014-15 | **Sqm** | | | | | | | |
| | For Culverts | | 2X2 | 6.50 | 0.50 | 0.45 | 5.85 | | |
| | | | | | | | **5.85** | **4542.48** | **26574.00** |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Basic Rate | 4206.00 | | | | | | | |
| | Area Weightage @ 8% | 336.48 | | | | | | | |
| | **Total** | **4542.48** | | | | | | | |
| 9 | KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2014-15 | **Sqm** | | | | | | | |
| | For Culverts | | 2 | 6.50 | 0.60 | | 7.80 | | |
| | For Sides | | 2X2 | 6.50 | 0.23 | | 5.98 | | |
| | | | 2X2 | 1.65 | 0.23 | | 1.52 | | |
| | | | | | | | **15.30** | **260.28** | **3982.00** |
| | **Basic Rate** | **241.00** | | | | | | | |
| | Area Weightage @ 8% | 19.28 | | | | | | | |
| | **Total** | **260.28** | | | | | | | |
| 10 | KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix **1:3:6** withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2014-15 | **cum** | | | | | | | |
| | For Culverts | | 2X2 | 6.50 | 0.50 | 0.10 | 1.30 | | |
| | Vent Bed | | 2 | 6.50 | 0.60 | 0.10 | 0.78 | | |
| | | | | | | | **2.08** | 5287.68 | **10998.00** |
| | Basic Rate | 4896.00 | | | | | | | |
| | Area Weightage @ 8% | 391.68 | | | | | | | |
| | Total | **5287.68** | | | | | | | |
| 11 | KSRB 15.1.3: Providing **FLush pointing** to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2014-15 | Sqm | | | | | | | |
| | For Culverts | | 2X2 | 6.50 | | 0.50 | 13.00 | | |
| | | | | | | | **13.00** | 91.80 | **1193.00** |
| | Basic Rate | 85.00 | | | | | | | |
| | Area Weightage @ 8% | 6.80 | | | | | | | |
| | **Total** | **91.80** | | | | | | | |
| | | | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 12 | KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix **M20** withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, **No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2014-15** | **Cum** | | | | | | | |
| | For Culverts | | 2 | 6.50 | 1.65 | 0.23 | 4.93 | | |
| | | | | | | | **4.93** | 6065.28 | **29923.00** |
| | Basic Rate | 5616.00 | | | | | | | |
| | Area Weightage @ 8% | 449.28 | | | | | | | |
| | **Total** | **6065.28** | | | | | | | |
| 13 | KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR 2014-15 | **Qtl** | | | | | | | |
| | 0.80Ton/Cum | | 0.080 | 4.93 | | | **0.39** | 78351.84 | **30924.00** |
| | Basic Rate | 72548.00 | | | | | | | |
| | Area Weightage @ 8% | 5803.84 | | | | | | | |
| | Total | **78351.84** | | | | | | | |
| | | | | | | | | | |
| | Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and secondary beams. Page No. 18/ Item No. 4.48/ PWD SR 2014-15 | Cum | | | | | | | |
| | Masjid Road 1st Cross | | 1 | 110.00 | 5.00 | 0.10 | 55.00 | | |
| | Masjid Road 2nd Cross | | 1 | 113.00 | 5.00 | 0.10 | 56.50 | | |
| | | | | | | | **111.50** | 5847.12 | **651954.00** |
| | Basic Rate | 5414.00 | | | | | | | |
| | Area Weightage @ 8% | 433.12 | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | **Total** | **5847.12** | | | | | | | |
| | | | | | | | | | |
| 14 | KSRRB M2600-3: (ii) Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & technical specification complete as per specifications, MORTH specification No. 2605, No. 233/ Item No. 31.3 PWD SR 2014-15 | M | | | | | | | |
| | Masjid Road 1st Cross | | 22 | 5.00 | | | 110.00 | | |
| | Masjid Road 2nd Cross | | 22 | 5.00 | | | 110.00 | | |
| | | | | | | | **220.00** | 138.24 | **30413.00** |
| | Basic Rate | 128.00 | | | | | | | |
| | Area Weightage @ 8% | 10.24 | | | | | | | |
| | **Total** | **138.24** | | | | | | | |
| 15 | Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift No. 171/ Item No. 22.7/ PWD SR 2014-15 | Sqm | | | | | | | |
| | Masjid Road 1st Cross | | 1 | 110.00 | 5.00 | | 550.00 | | |
| | Masjid Road 2nd Cross | | 1 | 113.00 | 5.00 | | 565.00 | | |
| | | | | | | | **1115.00** | 97.20 | **108378.00** |
| | Basic Rate | 90.00 | | | | | | | |
| | Area Weightage @ 8% | 7.20 | | | | | | | |
| | Total | **97.20** | | | | | | | |
| | | | | | | | | | |
| 21 | Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km ( Page No.123, | Cum | | | | | | | |
| | | | Qty. Vide Item No. 1+2 | | | | **247.39** | | |
| | | | | | | | **247.39** | 68.12 | **16852.00** |
| | Basic Rate Lead Charges Upto 2.00 Kms | 5.12 | | | | | | | |
| | PWD SR 2014-15 (P.130/I.17.1) For loading and unloading | 63.00 | | | | | | | |
| | **Total** | **68.12** | | | | | | | |
| | | | | | | | Grand Total | | **1979631.00** |
| | | | | | | | | | |
| 22 | For 1% Third Party Charges | | | | | | | | **19796.00** |
| | | | | | | | | | |
| 23 | Miscesallaneous Charges | L/S | | | | | | | **573.00** |
| | | | | | | | | Total | **2000000.00** |

Technical Sanction for Rs. 20.00L
Twenty Lakhs only.
P3089
Registered on ... vide Memo. No. 104 Dt. 26/08/15
subject to conditions contained therein.
AE/JE
EE (BTP.Div.)

**Rupees Twenty Lakh(s) Only**

**CERTIFICATE**

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Executive Engineer
Byatarayanapura Division
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore

Administrative Approval
Accorded For 20.00 lakhRs
Head of A/C..P3089
CER NO : 19 Dt. 19.08.15

TA

CE (YNK)